1st and Final bill

Name of work: Construction of Rain Water Harvesting pits and Toilets at Parks in ward no -04.

Work Order No: BBMP / EE/ YNK.D / E-PMT 16 /W.O / 06/2020-21 dt: 2-5-2020.

JOB NUMBER: 004-20-000044.

Estimate Cost: 15.00 lakhs.

As No: EE/ YNK.D/ AS / /2019-20 dt

Ts No : CE / YNK.Z/ TS / /2019-20 dt

Name of Contractor : Sri G Venkategowda.

MEASUREMENTS

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	EWE KSRB 2-2 Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m including breaking of clods complete as per specifications. (Page No 6, I No.2.3) 10km lead = (1.28x2x10)+57	cum							
	Premeasument Recorded vide excel sheet page no						43.20		
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications	cum					43.20	399.54	17260.00
	a) 40 mm jelly								
	3.14x0.9x0.9/4=0.63*0.5=0.31*18=5.67						5.67	1901.00	10779.00
3	b) 20 mm jelly								
	3.14x0.9x0.9/4=0.63*0.5=0.31*18=5.67						5.67	1901.00	10779.00
4	c) Coarse sand								
	3.14x0.9x0.9/4=0.63*0.35=0.22*18=3.96						3.96	2651.00	10498.00

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ-5
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Ramanjeeraha
18/05/2020

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	d) Fine sand								
	3.14x0.9x0.9/4=0.63*0.20=0.12*18=2.16								
							2.16	2651.00	5726.00
6	e) 12.5mm chips								
	3.14x0.9x0.9/4=0.63*0.20=0.12*18=2.16								
							2.16	1901.00	4106.00
7	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for HDPE Grade PE80-PN6.0, 710 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.18 Code No.	M							
	shankar nag park (inside)		2	2.50			5.00		
	Basaveshwara park		3	2.50			7.50		
	Vinayaka park		6	2.50			15.00		
	Vishweshwarayya park		5	2.50			12.50		
	kempegowda park		2	2.50			5.00		
	park premises		3	3.00			9.00		
							54.00	13984.82	755180
8	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge.	sqm							
			1	~~18.00~~ R	~~0.40~~ R		6.93		
	11×0.63 = 6.93 sqm						~~7.20~~		
							~~7.20~~ R2	71.03	511

Rasnageerah 18/5/2020

Ramangeerah 30/05/2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)	Cum							
	Premeasument Recorded vide excel sheet page no								
							40.31	5505.64	221905.00
10	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification	Cum							
	for RWH								
			18	1.40	1.00	0.15	3.78		
			1	30.00	(2.4+2.5)/2	0.15	11.03		
			1	30.00	(2.5+2.4)/2	0.15	11.03		
			1	30.00	(2.4+2.5)/2	0.15	11.03		
			1	10.00	(2.5+2.1)/2	0.15	3.45		
						Qty	40.31		
							40.31	7070.20	284964

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15/06/2020

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications. (P.No 151 of I.No.19.97 of PWD BCSR 2018-19)	Qtl							
	for gratings								
	Wrought iron 7830 kg / cum								
	0.45x0.01x0.01x7830 = 0.35kg / rod								
	4Nos x 0.35 = 1.40 kg								
	6 Nos x 0.30 x 0.01 x 0.01 = 1.40 kg								
	1.40 kg + 1.40 kg = 2.81 kg / grating	A)							
	Angels								
	ISA 40mm x 40mm								
	3kg / mtr / one								
	2no x 0.45 = 2.7kg								
	2x0.30 x 3 = 1.80kg								
	2.7kg +1.80kg = 4.50 kg / angel	B)							
	A)+B) = 2.81+4.50 = 7.31kg								
			23	7.31			168.13		
							1.68	7618.22	12809
							Sub Total		1334518.00
							GST 12%		160142.16
							Grand Total		1494660.00

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Ramanagowda
29/06/2020